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CLAIMS

- An alkenyl ether compound comprising an aromatic carboxylic acid having a fluorine atom or an aromatic carboxylic acid ester having a fluorine atom.
- 2. The alkenyl ether compound according to claim
 1, which is represented by the general formula (1):

$$XO (AO)_m B (D)_n COOR$$
 (1)

wherein X represents an alkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is replaced by a fluorine atom; n represents an integer of 1 to 10; and R represents a hydrogen atom, an alkyl group which may be substituted, or an aromatic ring which may be substituted.

- 3. A polymer compound comprising a polyalkenyl ether repeating unit comprising at least one selected from a carboxylic acid, a carboxylic acid ester and a carboxylic acid salt, each having a fluorine atom in a side chain thereof.
- 4. The polymer compound according to claim 3, which has a repeating unit represented by the general formula (2) or (3):

WO 2004/099264 PCT/JP2004/006348

89

$$-(X') - (OOR) - (OOR$$

wherein X' represents a polyalkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is displaced by a fluorine atom; n represents an integer of 1 to 10; and R represents a hydrogen atom, an alkyl group which may be substituted, or an aromatic ring which may be substituted; or

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$$(X')$$
 -
| O $(AO)_m B (D)_n COO^- M$ (3)

wherein X' represents a polyalkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is displaced by a fluorine atom; n represents an integer of 1 to 10; and M represents a monovalent or polyvalent metal cation.

- 5. A block polymer comprising a polyalkenyl ether repeating unit comprising an aromatic structure having a fluorine atom in a side chain thereof in at least one block segment.
- 6. The block polymer according to claim 5, wherein the aromatic structure is at least one selected from a carboxylic acid, a carboxylic acid ester and a carboxylic acid salt.
- 7. The block polymer according to claim 5,
 10 wherein the repeating unit is represented by the general formula (4):

- wherein X' represents a polyalkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is displaced by a fluorine atom; n represents an integer of 1 to 10; p represents 0 or 1;
- and COOR represents a carboxylic acid ester, a

 25 carboxylic acid, or a salt of a carboxylic acid anion
 and a cation.
 - 8. The block polymer according to claim 5,

further comprising a hydrophilic block segment and a hydrophobic block segment.

9. A composition comprising a solvent or dispersing medium, a functional substance, and the polymer compound set forth in claim 3 or the block polymer set forth in claim 5.

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- 10. The composition according to claim 9, wherein the block polymer includes the functional substance.
- 11. The composition according to claim 10,10 wherein the functional substance is a coloring material.
 - 12. An image recording method comprising the steps of preparing the composition set forth in claim 11 and recording the composition on a medium.
- 13. An image recording apparatus comprising a
 15 recording means for recording the composition set froth in claim 11 on a medium.